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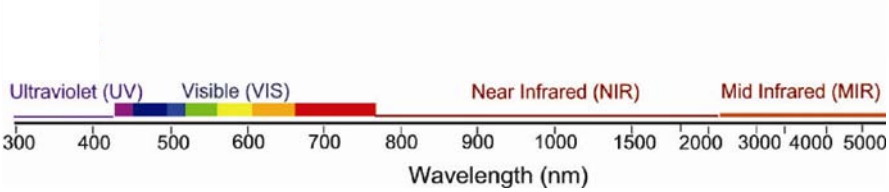
## DESCRIPTION

The iCure™ AS200 is a thermal spot curing system that is used to cure conventional thermal adhesives. The unit provides a versatile and cost effective solution that delivers high optical energy with a significant amount of infrared radiation. The infrared radiation is strongly absorbed by thermal adhesives allowing faster and better quality cures. A sophisticated on board micro-processor monitors system performance, allows for a flexible user friendly interface and offers a range of reporting features. Fitted with a programmable optical attenuator, the iCure™ AS200 allows the user to program and save a variety of curing profiles. Parameters such as radiation intensity and exposure times are easily and accurately controlled.

## FEATURES

- Reduce curing time by over 75%
- 200 W lamp with up to 90 W/cm2
- Significant infrared contribution where heat cure adhesives have the most absorption
- Range of field replaceable optical filters
- Customizable delivery optics
- User programmable curing profiles
- Networking capability
- SmartSense™ system monitoring to extend lamp life and performance
- Wide, state of the art touch screen with intuitive graphical user interface
- Shutter with 100 ms response time
- Foot pedal for hands free operation




# iCure™ AS200

## Thermal Spot Curing System


## APPLICATIONS

- Spot curing of thermal epoxies
- Bonding and fixing of plastic and glass components
- Fixing of lenses
- Temporary fixing of miniature components
- Precision assembly and bonding of semiconductor components
- Focused energy for micro soldering
- Localized heat welding of thermoplastics

## SPECTRAL POWER DISTRIBUTION*

| IRRADIANCE | APPLICATION |
|---|---|
| UV + visible | Radiation cured adhesives |
| Near infrared | Soldering and plastic welding |
| Mid infrared | Heat-cured adhesives |
| Total Light | Broad radiation spectrum for faster heat cures |

**Total light irradiance: 90W/cm$^2$*

## TYPICAL CURE PROFILES

| | |
|---|---|
| Epotek 353ND | Manufacturer's recommendation of 1 min @150$^{o}$C reduced to less than 15 sec. with iCure™ AS200 |

## SPECIFICATIONS

| | |
|---|---|
| Lamp | 200 Watts UHP Mercury Vapor Arc |
| Rated lamp life | Over 1500 hours (continuous operation) |
| Optical Spectrum | 300 – 3600 nm |
| Output irradiance | Full optical spectrum, 90W/cm2 |
| Lightguide | 1.2 m length, 3.6 mm diameter output (other configurations available) |
| Lightguide bend radius | 10 cm |
| Spot size | 3.6 mm at the output of the lightguide |
| Warm-up Period | 90 seconds (typical) |
| Power | 85-240 VAC 50/60 Hz |
| Control Panel | Touch Screen |
| Ports | Ethernet 10/100Mb<br>6 x USB Host<br>1 x USB Client<br>1 x Audio Input<br>2 x Audio Outputs<br>Foot Pedal Switch Input<br>PCI-Express Expansion port |
| Dimensions (L x W x H) | 13.3" x 7.1" x 7.9"<br>33,8cm x 18,0cm x 20,1cm |
| Weight | 9.9 lbs<br>4,5 kg |
| Operating Temperature | -10C to +45C (also include temperatures in F) |
| Included | Lamp module, light guide, power cord, foot pedal, user manual, protective glasses |
| Warranty | 1 year |
| CE marked; certified to IEC, CSA & UL standards. (approvals pending) | |

Contact IRphotonics for prices and availability or to obtain the name of your local representative.
Hg-Lamps contain mercury. The lamp must be disposed in accordance with local rules and regulations.
Consult: www.lamprecycle.org for more information.



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